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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/002,244A

DATE: 04/18/2002

TIME: 14:12:54

Input Set : A:\346BUSC1.txt

Output Set: N:\CRF3\04182002\J002244A.raw

3 <110> APPLICANT: ARIAD Gene Therapeutics, Inc.
5 <120> TITLE OF INVENTION: Use of Heterologous Transcription Factors in Gene Therapy
7 <130> FILE REFERENCE: 346B USC1
9 <140> CURRENT APPLICATION NUMBER: 10/002,244A
10 <141> CURRENT FILING DATE: 2001-10-23
12 <160> NUMBER OF SEQ ID NOS: 68
14 <170> SOFTWARE: PatentIn version 3.0
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 8
18 <212> TYPE: PRT
19 <213> ORGANISM: herpes simplex virus 7
21 <220> FEATURE:
22 <221> NAME/KEY: DOMAIN
23 <222> LOCATION: (1)..(8)
24 <223> OTHER INFORMATION: VP16 V8 motif
27 <400> SEQUENCE: 1
29 Asp Phe Asp Leu Asp Met Leu Gly
30 1 5
32 <210> SEQ ID NO: 2
33 <211> LENGTH: 9
34 <212> TYPE: PRT
35 <213> ORGANISM: herpes simplex virus 7
37 <220> FEATURE:
38 <221> NAME/KEY: DOMAIN
39 <222> LOCATION: (1)..(9)
40 <223> OTHER INFORMATION: VP16 V9 motif
43 <400> SEQUENCE: 2
45 Asp Phe Asp Leu Asp Met Leu Gly Gly
46 1 5
48 <210> SEQ ID NO: 3
49 <211> LENGTH: 12
50 <212> TYPE: DNA
51 <213> ORGANISM: Artificial Sequence
53 <220> FEATURE:
54 <221> NAME/KEY: misc_feature
55 <222> LOCATION: (1)..(12)
56 <223> OTHER INFORMATION: ZFHD1 composite DNA-binding site
57 n = A, G, T or C
60 <400> SEQUENCE: 3
W--> 61 taattanggg ng
64 <210> SEQ ID NO: 4
65 <211> LENGTH: 18
66 <212> TYPE: PRT

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67 <213> ORGANISM: homo sapien
69 <220> FEATURE:
70 <221> NAME/KEY: DOMAIN
71 <222> LOCATION: (1)..(18)
72 <223> OTHER INFORMATION: glutamine rich region of Oct-2
75 <400> SEQUENCE: 4
77 Asn Phe Leu Gln Leu Pro Gln Gln Thr Gln Gly Ala Leu Leu Thr Ser
78 1          5          10          15
80 Gln Pro
83 <210> SEQ ID NO: 5
84 <211> LENGTH: 6
85 <212> TYPE: PRT
86 <213> ORGANISM: homo sapien
88 <220> FEATURE:
89 <221> NAME/KEY: DOMAIN
90 <222> LOCATION: (1)..(6)
91 <223> OTHER INFORMATION: repeat in Ewing sarcome gene
94 <400> SEQUENCE: 5
96 Ser Tyr Gly Gln Gln Ser
97 1          5
99 <210> SEQ ID NO: 6
100 <211> LENGTH: 31
101 <212> TYPE: DNA
102 <213> ORGANISM: Artificial Sequence
104 <220> FEATURE:
105 <221> NAME/KEY: misc_feature
106 <222> LOCATION: (1)..(31)
107 <223> OTHER INFORMATION: primer
110 <400> SEQUENCE: 6
111 atgctctaga gaacgcccat atgcttgccc t          31
114 <210> SEQ ID NO: 7
115 <211> LENGTH: 34
116 <212> TYPE: DNA
117 <213> ORGANISM: Artificial Sequence
119 <220> FEATURE:
120 <221> NAME/KEY: misc_feature
121 <222> LOCATION: (1)..(34)
122 <223> OTHER INFORMATION: primer
125 <400> SEQUENCE: 7
126 atgcgcggcc gccgcctgtg tgggtgcgga tgtg          34
129 <210> SEQ ID NO: 8
130 <211> LENGTH: 33
131 <212> TYPE: DNA
132 <213> ORGANISM: Artificial Sequence
134 <220> FEATURE:
135 <221> NAME/KEY: misc_feature
136 <222> LOCATION: (1)..(33)
137 <223> OTHER INFORMATION: primer
140 <400> SEQUENCE: 8

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141 atgcgcggcc gcaggaggaa gaaacgcacc agc 33
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145 <211> LENGTH: 49
146 <212> TYPE: DNA
147 <213> ORGANISM: Artificial Sequence
149 <220> FEATURE:
150 <221> NAME/KEY: misc_feature
151 <222> LOCATION: (1)..(49)
152 <223> OTHER INFORMATION: primer
155 <400> SEQUENCE: 9
156 gcatggatcc gattcaacta gtgttgattc ttttttcttt ctggcggcg 49
159 <210> SEQ ID NO: 10
160 <211> LENGTH: 306
161 <212> TYPE: DNA
162 <213> ORGANISM: homo sapien
164 <220> FEATURE:
165 <221> NAME/KEY: misc_feature
166 <222> LOCATION: (1)..(306)
167 <223> OTHER INFORMATION: 100 aa of p65 transcription activation domain
170 <400> SEQUENCE: 10
171 ctgggggacct tgcttgcaa cagcacagac ccagctgtgt tcacagacct ggcattccgtc 60
173 gacaactccg agtttcagca gctgctgaac cagggcatac ctgtggcccc ccacacaact 120
175 gagcccatgc tgatggagta ccctgaggct ataactcgcc tagtgacagg ggcccagagg 180
177 ccccccgacc cagctcctgc tccactgggg gccccggggc tccccaatgg cctcctttca 240
179 ggagatgaag acttctcttc cattgcggac atggacttct cagccctgct gagtcagatc 300
181 agctcc 306
184 <210> SEQ ID NO: 11
185 <211> LENGTH: 573
186 <212> TYPE: DNA
187 <213> ORGANISM: homo sapien
189 <220> FEATURE:
190 <221> NAME/KEY: misc_feature
191 <222> LOCATION: (1)..(573)
193 <400> SEQUENCE: 11
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196 ccggccccctc cccaagtcct gccccaggct ccagcccctg cccctgctcc agccatggta 120
198 tcagctctgg cccaggcccc agcccctgtc ccagtcctag ccccaggccc tcctcaggct 180
200 gtggccccac ctgcccccaa gccacccag gctggggaag gaacgctgtc agaggccctg 240
202 ctgcagctgc agtttgatga tgaagacctg ggggccttgc ttggcaacag cacagacca 300
204 gctgtgttca cagacctggc atccgtcgac aactccgagt ttcagcagct gctgaaccag 360
206 ggcataacctg tggcccccca cacaactgag cccatgctga tggagtacct tgaggctata 420
208 actgccttag tgacagccca gagggcccc gaccagctc ctgctccact gggggccccg 480
210 gggctcccca atggcctcct ttcaggagat gaagacttct cctccattgc ggacatggac 540
212 ttctcagccc tgctgagtca gatcagctcc taa 573
215 <210> SEQ ID NO: 12
216 <211> LENGTH: 36
217 <212> TYPE: DNA
218 <213> ORGANISM: Artificial Sequence
220 <220> FEATURE:

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Input Set : A:\346BUSC1.txt

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221 <221> NAME/KEY: misc_feature
222 <222> LOCATION: (1)..(36)
223 <223> OTHER INFORMATION: primer
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227 gcatgtctag agagatgtgg catgaaggcc tggaag 36
230 <210> SEQ ID NO: 13
231 <211> LENGTH: 35
232 <212> TYPE: DNA
233 <213> ORGANISM: Artificial Sequence
235 <220> FEATURE:
236 <221> NAME/KEY: misc_feature
237 <222> LOCATION: (1)..(35)
238 <223> OTHER INFORMATION: primer
241 <400> SEQUENCE: 13
242 gcatcactag tctttgagat tcgtcggaac acatg 35
245 <210> SEQ ID NO: 14
246 <211> LENGTH: 33
247 <212> TYPE: DNA
248 <213> ORGANISM: Artificial Sequence
250 <220> FEATURE:
251 <221> NAME/KEY: misc_feature
252 <222> LOCATION: (1)..(33)
253 <223> OTHER INFORMATION: primer
256 <400> SEQUENCE: 14
257 gcacattcta gaattgatac gccagaccc ttg 33
260 <210> SEQ ID NO: 15
261 <211> LENGTH: 33
262 <212> TYPE: DNA
263 <213> ORGANISM: Artificial Sequence
265 <220> FEATURE:
266 <221> NAME/KEY: misc_feature
267 <222> LOCATION: (1)..(33)
268 <223> OTHER INFORMATION: primer
271 <400> SEQUENCE: 15
272 cgatcaacta gtaagtgtca atttccgggg cct 33
275 <210> SEQ ID NO: 16
276 <211> LENGTH: 36
277 <212> TYPE: DNA
278 <213> ORGANISM: Artificial Sequence
280 <220> FEATURE:
281 <221> NAME/KEY: misc_feature
282 <222> LOCATION: (1)..(36)
283 <223> OTHER INFORMATION: primer
286 <400> SEQUENCE: 16
287 gcactatcta gactgaagaa catgtgtgag cacagc 36
290 <210> SEQ ID NO: 17
291 <211> LENGTH: 36
292 <212> TYPE: DNA
293 <213> ORGANISM: Artificial Sequence

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295 <220> FEATURE:
296 <221> NAME/KEY: misc_feature
297 <222> LOCATION: (1)..(36)
298 <223> OTHER INFORMATION: primer
301 <400> SEQUENCE: 17
302 gcactatcta gagtgagcga ggagctgata cgagtg          36
305 <210> SEQ ID NO: 18
306 <211> LENGTH: 36
307 <212> TYPE: DNA
308 <213> ORGANISM: Artificial Sequence
310 <220> FEATURE:
311 <221> NAME/KEY: misc_feature
312 <222> LOCATION: (1)..(36)
313 <223> OTHER INFORMATION: primer
316 <400> SEQUENCE: 18
317 cgatcaacta gtggaaacat attgcagctc taagga          36
320 <210> SEQ ID NO: 19
321 <211> LENGTH: 36
322 <212> TYPE: DNA
323 <213> ORGANISM: Artificial Sequence
325 <220> FEATURE:
326 <221> NAME/KEY: misc_feature
327 <222> LOCATION: (1)..(36)
328 <223> OTHER INFORMATION: primer
331 <400> SEQUENCE: 19
332 cgatcaacta gttggcaacag ccaattcaag gtcccc          36
335 <210> SEQ ID NO: 20
336 <211> LENGTH: 31
337 <212> TYPE: DNA
338 <213> ORGANISM: Artificial Sequence
340 <220> FEATURE:
341 <221> NAME/KEY: misc_feature
342 <222> LOCATION: (1)..(31)
343 <223> OTHER INFORMATION: primer
346 <400> SEQUENCE: 20
347 atgctctaga ctgggggcct tgcttgcaa c              31
350 <210> SEQ ID NO: 21
351 <211> LENGTH: 31
352 <212> TYPE: DNA
353 <213> ORGANISM: Artificial Sequence
355 <220> FEATURE:
356 <221> NAME/KEY: misc_feature
357 <222> LOCATION: (1)..(31)
358 <223> OTHER INFORMATION: primer
361 <400> SEQUENCE: 21
362 atgctctaga gatgagtttc ccaccatggt g            31
365 <210> SEQ ID NO: 22
366 <211> LENGTH: 39
367 <212> TYPE: DNA

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RAW SEQUENCE LISTING ERROR SUMMARY
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 7,11

VERIFICATION SUMMARY

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Input Set : A:\346BUSC1.txt

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L:61 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0